



Operations Report

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29 January 2004

CDF Weekly Meeting

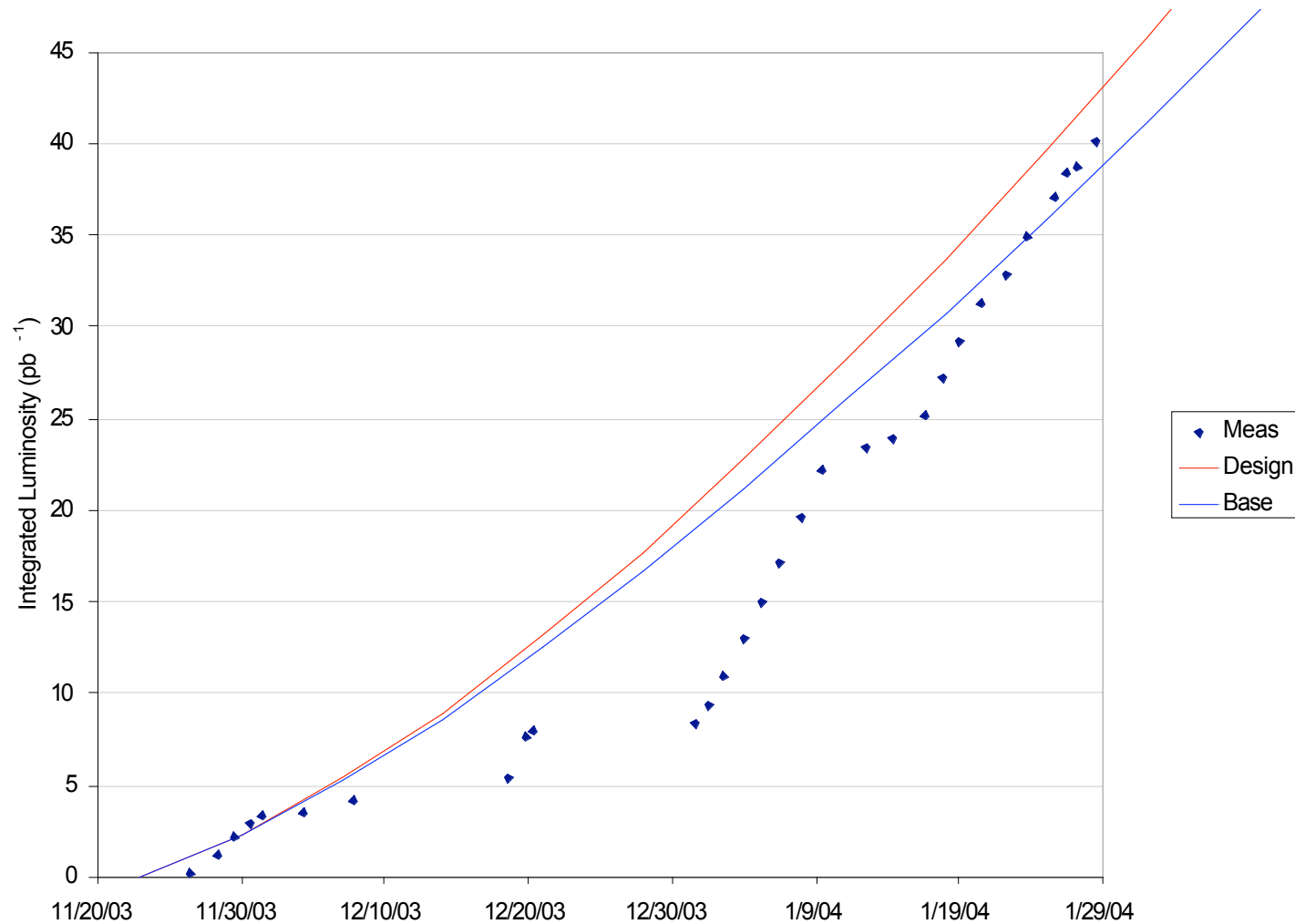


This Week's Stores

Date	Store	Inst Lum (initial)	Deliv (nb ⁻¹)	Lum to tape (ε)	Si Phys Lum (ε)	Comment
1/22	3185	43.8e30	1847	1475 (80%)	1466 (79%)	
1/23	3187	13.0e30	258	241 (94%)	241 (94%)	Recycler shot
1/24	3189	47.4e30	2201	1741 (79%)	1635 (74%)	
1/25	3191	40.9e30	1312	950 (72%)	863 (66%)	
1/26	3195	44.7e30	325	199 (61%)	77 (24%)	Vacuum leak
1/27	3197	41.9e30	1925	1658 (86%)	1648(86%)	TEL problem
Total			7.9 pb ⁻¹	6.2 pb ⁻¹ (80%)	5.9 pb ⁻¹ (75%)	



Accelerator Performance





Accelerator operation



TEVATRON GETS STORE USING ANTIPROTONS FROM THE RECYCLER

At 2:00 p.m. on Friday, January 23, the Accelerator Division achieved its first store in the Tevatron using antiprotons transferred from the Recycler.



Detector Operation

- Thanks to Mike Lindgren for donning the mantle of head of operations during the Florida meeting.
- New ACEs are performing well
- 3 controlled accesses on Monday (my first day)
 1. 2 hrs. for DØ
 2. 5 hrs. for wet engine repair
 3. 1 hr. for CDF
- Work included:
 - Cot14 byte shift fixed?
 - Si power supply swapped
- Efficiency is improving
 - Procedure to reboot the Alpha mid-run
 - Byte shift problem addressed
 - Relatively low luminosity
- We're not out of the woods yet
 - For $\text{lum} > 55\text{E}30$ we will run without SVT triggers
 - “Si resonance condition” or “L2 done timeout” problems could return



Summary/Plan

- **Tevatron**
 - Initial luminosities $> 4.0E31$ are now commonplace (even from a small stack)
 - Machine studies may occur in 2 weeks.
- **CDF**
 - Detector is running well
 - We still have several improvements to implement:
 - Potential fix for Si resonance problem
 - L2 muon code
 - Redistribute load to VRB's
 - New DSP code
 - Modifications to SVT based triggers